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TITLE: ORGANIC ELECTROLYTE BATTERY

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INVENTOR-INFORMATION:

NAME

KAWAI, TETSUO

ASSIGNEE-INFORMATION:

NAME

HITACHI MAXELL LTD

COUNTRY

N/A

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ABSTRACT:

PURPOSE: To prevent the increase of internal resistance and the breakage of separator, by installing a separator made from a sheet consisting of specific glass fibers and polypropylene fibers etc. between the positive pole mix and negative pole mix.

CONSTITUTION: A specific organic electrolyte is poured mostly into the negative pole side and partly into the positive pole side. A separator 6 made from a non- woven cloth consisting of 50~80wt% glass fibers having 0.2~1 μ m diameter and 50~15wt% polypropylene or polyethylene fibers or a mixture of both is placed between the positive pole mix 2 and the negative pole mix 5. The periphery of this separator 6 is fixed under pressure between

a gasket 4 and the positive pole mix 2. The separator 6 does not give rise to breakage and/or local thinning because of its extensibility and the decrease of discharge voltage can be protected by the good liquid retaining property, even when the central part 7 of the positive pole mix 2 deforms, as if it had stood out greatly, due to swelling at the last stage of discharge.

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